

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	
John Ernest SIMS) Group Art Unit: 1649
Application No.: 09/612,921) Examiner: CHERNYSHEV, OLGA N.
Filed: July 10, 2000	Confirmation No.: 9162
For: IL-1 Delta DNA and Polypeptides))
Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
Sir:	

DECLARATION UNDER 37 C.F.R. § 1.131

I, John Ernest Sims, state that I am the named applicant of the above-identified application and am the inventor of the subject matter described and claimed therein. Prior to May 15, 1998, I had completed in this country the invention as described and claimed in the above-identified application as evidenced by the following:

- I have reviewed pending claims 59-62 and 65-67 of the above-identified
 Application, a copy of which is attached as Exhibit 1.
- 2. Exhibit 2, a copy of which is attached, describes embodiments of the nucleic acid molecules claimed in claims 59-62 and 65-67 of Exhibit 1.
- 3. In particular, on page 1 of Exhibit 2, nucleotides 73-540 are the sequence of human IL-1 delta, which is SEQ ID NO:3 of pending claims 59-62 and 65-67 of the above-identified application.

- 4. Prior to May 15, 1998, I conceived and reduced to practice in this country at least one embodiment of each of the nucleic acid molecules claimed in claims 59-62 and 65-67 of Exhibit 1, as evidenced by Exhibit 2.
- 5. Prior to May 15, 1998, I requested that one of the researchers working under me have the Immunex sequencing facility sequence several clones of human cDNAs, which had been isolated under my direction. At that time, I believed that these clones contained full-length human IL-1 delta DNA.
- 6. On information and belief, the researcher completed a DNA Sequence
 Request Form prior to May 15, 1998, a copy of which is attached as
 Exhibit 3, and submitted it to the sequencing facility at Immunex
 Corporation.
- 7. On information and belief, the sequencing facility at Immunex

 Corporation completed sequencing the clones and sent the sequences to a

 computer file prior to May 15, 1998. A copy of a printout of the DNA

 sequences in that file is attached as Exhibit 2.
- 8. Prior to May 15, 1998, I examined a printout of the DNA sequences generated from the clones.
- 9. Prior to May 15, 1998, I confirmed that the sequences contained a complete human IL-1 delta coding region.
- 10. On information and belief, a printout of the DNA sequences generated from the clones was viewed by another researcher at Immunex Corporation prior to May 15, 1998.

- 11. Prior to May 15, 1998, I discussed with another researcher at Immunex

 Corporation that the printout of the DNA sequences generated from the

 clones contained the sequence of a complete human IL-1 delta coding

 region.
- 12. The sequence on page 1 of Exhibit 2 comprises the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.
- 13. The sequence on page 1 of Exhibit 2 comprises at least 30 contiguous nucleotides of the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.
- 14. The sequence on page 1 of Exhibit 2 comprises at least 60 contiguous nucleotides of the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.
- 15. On information and belief, the sequence on page 1 of Exhibit 2 hybridizes to either strand of a denatured, double-stranded DNA comprising the nucleic acid sequence of SEQ ID NO:3 of the above-identified application, wherein the hybridization conditions include 50% formamide and 6XSSC, at 42°C with washing conditions of 68°C, 0.2XSSC, 0.1% SDS.
- 16. The sequence on page 1 of Exhibit 2 is at least 95% identical to the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.

Attorney Docket No. 03260.0047-00 U.S. Application No. 09/612,921

17. The sequence on page 1 of Exhibit 2 is at least 98% identical to the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.

18. The sequence on page 1 of Exhibit 2 is at least 99% identical to the nucleic acid sequence of SEQ ID NO:3 of the above-identified application.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

Respectfully submitted,

Date: August 3, Look

John Ernest Sims

Attachments:

Exhibit 1: Pending claims 59-62 and 65-67 of the above identified Application.

Exhibit 2: Printout of DNA sequences with names and dates redacted.

Exhibit 3: DNA Sequence Request Form with names and dates redacted.

EXHIBIT 1

Pending claims 59-62 and 65-67 of U.S. Application No. 09/612,921:

- 59. An isolated nucleic acid molecule comprising the nucleic acid sequence of SEQ ID NO:3.
- 60. An isolated nucleic acid molecule comprising at least 30 contiguous nucleotides of the nucleic acid sequence of SEQ ID NO:3.
- 61. The nucleic acid molecule of claim 60, wherein said nucleic acid molecule comprises at least 60 contiguous nucleotides of the nucleic acid sequence of SEQ ID NO:3.
- 62. An isolated nucleic acid molecule that hybridizes to either strand of a denatured, double-stranded DNA comprising the nucleic acid sequence of SEQ ID NO:3, wherein the hybridization conditions include 50% formamide and 6XSSC, at 42°C with washing conditions of 68°C, 0.2XSSC, 0.1% SDS.
- 65. The nucleic acid molecule of claim 62, wherein said nucleic acid molecule is at least 95% identical to the nucleic acid sequence of SEQ ID NO:3.
- 66. The nucleic acid molecule of claim 65, wherein said nucleic acid molecule is at least 98% identical to the nucleic acid sequence of SEQ ID NO:3.
- 67. The nucleic acid molecule of claim 66, wherein said nucleic acid molecule is at least 99% identical to the nucleic acid sequence of SEQ ID NO:3

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pT7B3-huIL1dFl-633-1 CONFIRMED
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          GAATGAAGGA CTCGGCATTG AAGGTGCTTT ATCTGCATAA TAACCAGCTT
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          CTAGCTGGAG GGCTGCATGC AGGGAAGGTC ATTAAAGGTG AAGAGATCAG
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          CGTGGTCCCC AATCGGTGGC TGGATGCCAG CCTGTCCCCC GTCATCCTGG
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          ACTCTAACAC TAGAGCCAGT GAACATCATG GAGCTCTATC TTGGTGCCAA
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          GGAATCCAAG AGCTTCACCT TCTACCGGCG GGACATGGGG CTCACCTCCA
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          GCTTCGAGTC GGCTGCCTAC CCGGGCTGGT TCCTGTGCAC GGTGCCTGAA
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Enzymes that do not cut:
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with 121 enzymes: "
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Enzymes that do cut:

DNA SEQUENCE REQUEST FORM attach photo here PCR fragments-5ul of sample CURRENT DATE: w. 200ng PhiX-Hae3 1.5% agarose / TAE gel PROJECT NAME: ethidium stain after running (to charge time to) 3R 6069 NAME OF CLONE(s): pT7B3 - h. 1(11: f1 # 633-1 SK. 625% Has this been sequenced at Immunex? SEQ REQ# VAX file location & name C ... IZID. HILIO] HUIZID - FIR. SET (or attach seq) [directory.subdir]filename Has this been sequenced previously and published? Accession# _____ or Vax file location_ DNA PREP METHOD: (circle) PEG ppid.: YES :Maxi prep # COMMENTS: (Pertinent Information, amount of sequence needed, available oligos. PCR amplification primers, insert size etc.) rector pT7Blue. 3 cloning site (Eco. P.5) Full lingth huma 11-idoits closed into pT7Blu 3. Place generale complete de seguese of eal. I need one that is free of PCR evens. 7 have tens of oligos available it medded The state of the state of Date started: sent to sr_database Vax file location: Date completed:

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